



WO Call Letter List

M Tech. (Research), 2025 - 26

The following applicants have been selected for written exam and/or interview for the department for the department of Water Resources and Ocean Engineering for M Tech. (Research) Programme. The applicants are requested to go through additional information provided in their Call letters.

#	Name	Reference Number	Branch/Specialisation
1	Abhijith Holla N	MTR2025GF0002	Geoinformatics
2	Harsha B	MTR2025WR0002	Water Resources Engineering & Management
3	Abhirohan Kashyap	MTR2025WR0004	Water Resources Engineering & Management
4	Prasanna Kumar M	MTR2025GF0005	Geoinformatics
5	JADHAV RUTURAJ SANJAY	MTR2025GF0006	Geoinformatics



Head Of Department

Water Resources and Ocean Engineering

विभागाध्यक्ष / HOD

ज.सं. एवं म. अभि. विभाग / Dept. of WROE

राष्ट्रीय प्रौद्योगिकी संस्थान कर्नाटक

National Institute of Technology Karnataka

सुरत्कल, मंगलूरु-५७५०२५ / Surathkal, Mangaluru-575025

कर्नाटक, भारत / Karnataka, India

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General Instructions for the candidates appearing for the M.Tech. (R)
Written Aptitude Test and Interview

1. Syllabus for the written aptitude test is provided in the Annexure.
2. Mode of written aptitude test is offline. The details of examination will be announced in the institute's website (<https://www.nitk.ac.in/>). For any updates, the candidates are informed to visit the Institute's website regularly.
3. There will be 30 Multiple Choice Question (MCQ) for the M.Tech.(R) Written Aptitude test. For every question, four options will be given. The candidates are expected to select the correct option.
4. Each correct answer carries one mark. Total marks for the test is 30.
5. The duration of the test is 60 minutes.
6. The candidates are allowed to use scientific calculators for solving the numerical problems.
7. After the written test the shortlisted candidates will be allowed to attend the M.Tech.(R) interview.
8. **Date and Time of Written Test: 21st May 2025 (Wednesday), 2:00 PM – 3:00 PM. No extra time will be given.**
9. **Date and Time of Interview: 21st May 2025 (Wednesday), 3:30 PM Onwards.**



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Annexure

Syllabus for M.Tech. (R) Written Aptitude Test

Engineering Mechanics: System of Forces, Free-Body Diagrams, Equilibrium Equations; Internal Forces in Structures; Plane Truss, Second Area Moment.

Solid Mechanics: Bending Moment and Shear Force in Statically Determinate Beams; Simple Stress and Strain Relationships; Simple Bending Theory, Flexural and Shear Stresses, Uniform Torsion, Buckling of Column.

Fluid Mechanics: Properties of fluids, Fluid statics; Continuity, Momentum, Energy equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth.

Numerical Methods: Accuracy and Precision; Error Analysis. Numerical Solutions of Linear and Non-Linear Algebraic Equations; Least Square Approximation, Newton's and Lagrange Polynomials, Numerical Differentiation, Integration by Trapezoidal and Simpson's rule, Single and Multi-Step Methods for First Order Differential Equations.

Calculus: Functions of Single Variable; Limit, Continuity and Differentiability; Mean Value Theorems, Local Maxima and Minima.


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